

AS D1

Patent Abstracts of Japan

PUBLICATION NUMBER : 59153902
PUBLICATION DATE : 01-09-84

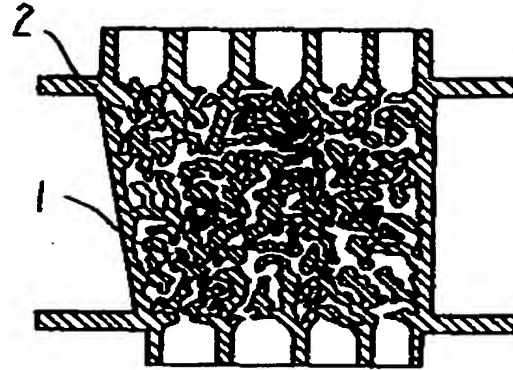
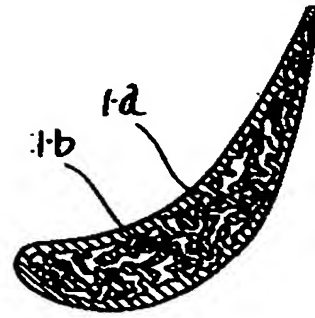
APPLICATION DATE : 23-02-83
APPLICATION NUMBER : 58027526

APPLICANT : HITACHI LTD;

INVENTOR : HIROSHIMA MINORU;

INT.CL. : F01D 9/02

TITLE : EFFECTIVELY COOLED BLADE



ABSTRACT : PURPOSE: To enhance the effect of cooling for a gas turbine blade nozzle, by forming a cooling fluid passage disposed in the blade as a sponge-like member so that the surface area of the cooling fluid passage is made large.

CONSTITUTION: A gas turbine nozzle blade 1 is composed of an outer layer section 1a and a sponge-like section 1b through which cooling fluid passes. The cooling liquid which flows into the nozzle blade 1 from the outer peripheral section of an end wall 2 cools down the blade 1 when it passes through the sponge-like section 1b. Thus, with the internal section of the blade being made sponge-like, the surface area through which the cooling fluid is made into contact with the blade may be made large to enhance the effect of cooling.

COPYRIGHT: (C)1984,JPO&Japio